



**Biosigma s.r.l.**

**a Dominique Dutscher Company**

Via Valletta, 6 | 30010 Cantarana di Cona (VE), Italy | Tel. ++39 0426 302224 (r.a.) |

Fax ++39 0426 302228 | SMS ++39 348 4077376 |

E-mail [info@biosigmaeu.com](mailto:info@biosigmaeu.com) | <http://www.biosigma.com> |

**M521D**

Rev. 03 – 30/07/2014

## TECHNICAL DATA SHEET



### THE EASIEST WAY TO STORE, MANAGE AND TRACK YOUR SAMPLES

- Innovative solution to manage your samples
- Linear barcode printed on the tubes
- Storage location management by a "user friendly" software
- Easy and fast sample tracking
- Custom editable information for each sample.



4Banking system  
web page

Data Matrix Code, web link





## REFERENCES



REF Scanner USB SG20T+USB cable		REF Scanner Cordless SG20B+Base Station		REF PC-Tablet with USB Scanner SG20T+USB cable		CryoGen® Tubes Vol. ml	CryoGen® Tubes Type	CryoGen® Tubes Quantity	Cap Model
ENGLISH SOFTWARE	LOGICIEL EN FRANÇAIS	ENGLISH SOFTWARE	LOGICIEL EN FRANÇAIS	ENGLISH SOFTWARE	LOGICIEL EN FRANÇAIS				
BBB1BE	BBB1BE/F	BBB1BEBT	BBB1BEBT/F	BBB1BEPC	BBB1BEPC/F	1.2	self standing	10 bags x 50 tubes	External
BBB1BI	BBB1BI/F	BBB1BIBT	BBB1BIBT/F	BBB1BIPC	BBB1BIPC/F	1.2	self standing	10 bags x 50 tubes	Internal
BBB2BE	BBB2BE/F	BBB2BEBT	BBB2BEBT/F	BBB2BEPC	BBB2BEPC/F	2.0	self standing	10 bags x 50 tubes	External
BBB2BI	BBB2BI/F	BBB2BIBT	BBB2BIBT/F	BBB2BIPC	BBB2BIPC/F	2.0	self standing	10 bags x 50 tubes	Internal
BBB2E	BBB2E/F	BBB2EBT	BBB2EBT/F	BBB2EPC	BBB2EPC/F	2.0	round bottom	10 bags x 50 tubes	External
BBB2I	BBB2I/F	BBB2IBT	BBB2IBT/F	BBB2IPC	BBB2IPC/F	2.0	round bottom	10 bags x 50 tubes	Internal
BBB3BE	BBB3BE/F	BBB3BEBT	BBB3BEBT/F	BBB3BEPC	BBB3BEPC/F	3.0	self standing	10 bags x 50 tubes	External
BBB4I	BBB4I/F	BBB4IBT	BBB4IBT/F	BBB4IPC	BBB4IPC/F	4.0	round bottom	10 bags x 50 tubes	Internal
BBB4BE	BBB4BE/F	BBB4BEBT	BBB4BEBT/F	BBB4BEPC	BBB4BEPC/F	4.0	self standing	10 bags x 50 tubes	External
BBB4BI	BBB4BI/F	BBB4BIBT	BBB4BIBT/F	BBB4BIPC	BBB4BIPC/F	4.0	self standing	10 bags x 50 tubes	Internal
BBB5BE	BBB5BE/F	BBB5BEBT	BBB5BEBT/F	BBB5BEPC	BBB5BEPC/F	5.0	self standing	10 bags x 50 tubes	External
BBB5BI	BBB5BI/F	BBB5BIBT	BBB5BIBT/F	BBB5BIPC	BBB5BIPC/F	5.0	self standing	10 bags x 50 tubes	Internal
BBB5I	BBB5I/F	BBB5IBT	BBB5IBT/F	BBB5IPC	BBB5IPC/F	5.0	round bottom	10 bags x 50 tubes	Internal



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### THE KIT INCLUDES:

- **500 CryoGen® Tubes CLEARLine® : 10 bags of 50 tubes heat sealed with precut, resealable. Volume of Your choice from 1 to 5 ml, Internal or external screw cap.**



- **1 affordable, high performance handheld Scanner of your choice between the 2 models:**

- **Scanner USB  
SG20T+USB cable**
- **Scanner Cordless  
SG20B+Base Station**



USB Scanner



Cordless Scanner

OR

- **PC-Tablet with USB Scanner - Ready to use**

- **1 Sample Quick software License + CD**
- **1 User manual**





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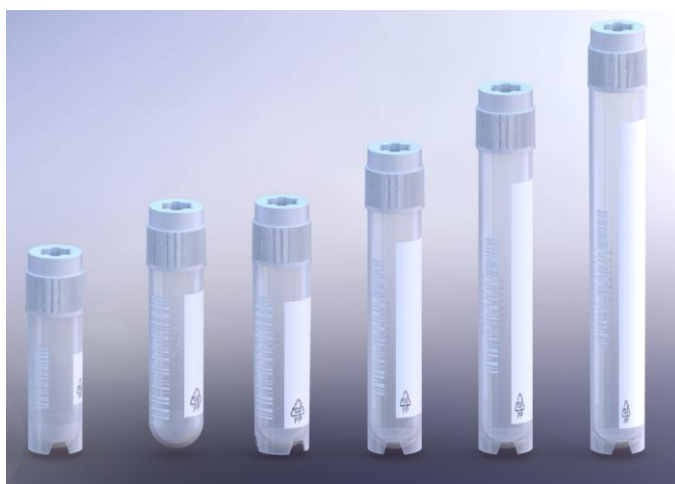
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## TECHNICAL DATA SHEET

### CryoGen® Tubes Stella Cap for automatic decapper CLEARline®



### CryoGen® Tubes External Stella Cap CLEARLINE® for automatic decapper



CryoGen® Tubes  
External cap  
Data Matrix Code, web link



REF	Description	Dimensions (cm)	Qty/Case
CL1ARBEPSTS	CryoGen® Tube 1,2ml self standing, external stella cap bi-injected , graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 4.02 Ø 1.26	500 (10 x 50 pcs)
CL1ARBEPSTS/B	CryoGen® Tube 1,2ml self standing, external stella cap bi-injected , graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 4.02 Ø 1.26	4.500 (90 x 50 pcs)
CL2AREPSTS	CryoGen® Tube 2ml, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 4.45 Ø 1.26	500 (10 x 50 pcs)
CL2AREPSTS/B	CryoGen® Tube 2ml, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 4.45 Ø 1.26	4.000 (80 X 50 pcs)
CL2ARBEPSTS	CryoGen® Tube 2ml self standing, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 4.56 Ø 1.26	500 (10 x 50 pcs)
CL2ARBEPSTS/B	CryoGen® Tube 2ml self standing, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 4.56 Ø 1.26	4.000 (80 X 50 pcs)
CL3ARBEPSTS	CryoGen® Tube 3ml self standing, external stella cap bi-injectet , graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 6.92 Ø 1.26	500 (10 x 50 pcs)
CL3ARBEPSTS/B	CryoGen® Tube 3ml self standing, external stella cap bi-injectet , graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 6.92 Ø 1.26	2.500 (50 X 50 pcs)
CL4ARBEPSTS	CryoGen® Tube 4ml self standing, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 7.36 Ø 1.26	500 (10 x 50 pcs)
CL4ARBEPSTS/B	CryoGen® Tube 4ml self standing, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 7.36 Ø 1.26	2.500 (50 X 50 pcs)
CL5ARBEPSTS	CryoGen® Tube 5ml self standing, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 8.76 Ø 1.26	500 (10 x 50 pcs)
CL5ARBEPSTS/B	CryoGen® Tube 5ml self standing, external stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 8.76 Ø 1.26	2.000 (40 X 50 pcs)

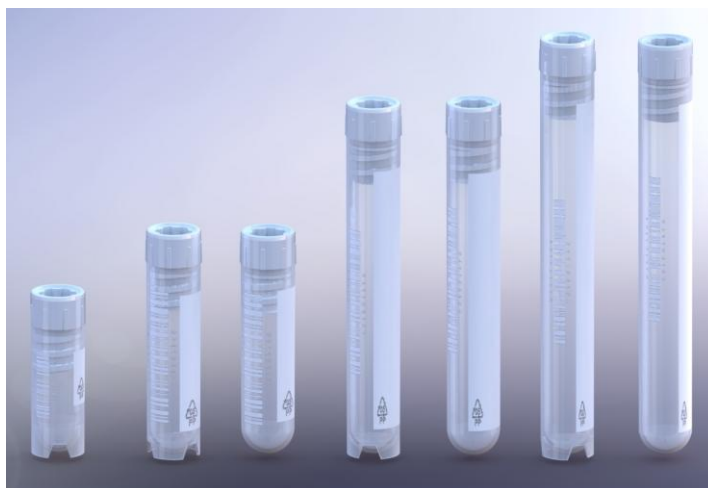
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**TECHNICAL DATA SHEET****CryoGen® Tubes Internal Stella Cap CLEARLINE® for automatic decapper**CryoGen® Tubes  
Internal cap

Data Matrix Code, web link



REF	Description	Dimensions (cm)	Qty/Case
CL1ARBIPSTS	CryoGen® Tube 1,2ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 4.27 Ø 1.26	500 (10 x 50 pcs)
CL1ARBIPSTS/B	CryoGen® Tube 1,2ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 4.27 Ø 1.26	4.500 (90 x 50 pcs)
CL2ARIPSTS	CryoGen® Tube 2ml, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 4.70 Ø 1.26	500 (10 x 50 pcs)
CL2ARIPSTS/B	CryoGen® Tube 2ml, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 4.70 Ø 1.26	4.000 (80 x 50 pcs)
CL2ARBIPSTS	CryoGen® Tube 2ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 4.82 Ø 1.26	500 (10 x 50 pcs)
CL2ARBIPSTS/B	CryoGen® Tube 2ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 4.82 Ø 1.26	4.000 (80 x 50 pcs)
CL4ARIPSTS	CryoGen® Tube 4ml, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 7.50 Ø 1.26	500 (10 x 50 pcs)
CL4ARIPSTS/B	CryoGen® Tube 4ml, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 7.50 Ø 1.26	2.500 (50 x 50 pcs)
CL4ARBIPSTS	CryoGen® Tube 4ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 7.62 Ø 1.26	500 (10 x 50 pcs)
CL4ARBIPSTS/B	CryoGen® Tube 4ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 7.62 Ø 1.26	2.500 (50 x 50 pcs)
CL5ARIPSTS	CryoGen® Tube 5ml, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 8.92 Ø 1.26	500 (10 x 50 pcs)
CL5ARIPSTS/B	CryoGen® Tube 5ml, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 8.92 Ø 1.26	2.000 (40 x 50 pcs)
CL5ARBIPSTS	CryoGen® Tube 5ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE®	H 9.03 Ø 1.26	500 (10 x 50 pcs)
CL5ARBIPSTS/B	CryoGen® Tube 5ml self standing, internal stella cap bi-injected, graduated, with writing area, with bar-code, sterile - CLEARLINE® IN BULK	H 9.03 Ø 1.26	2.000 (40 x 50 pcs)



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### Specification:

**“Code 128A” Barcode:** linear barcode printed directly on the tubes. Ideal for automatic processing and archiving of samples. It can be read with the most common barcode readers. The decoding of the bar code can be conveniently viewed in any direction.



**Screw cap** for automatic decapper : caps are made of a bi-injection system to prevent contamination and loss of fluids. The rubber is injected directly into the cap during molding.



- Large writing area.
- Graduation printed
- Designed for cryogenic storage of biological samples at temperatures as low as  $-196^{\circ}\text{C}$
- Autoclavable at  $121^{\circ}\text{C}$  steam for 20 minutes
- Fast cap screwing with only one hand.
- Test tube in medical polypropylene and cap in medical polyethylene/rubber
- CLEARLine® Certified (free of Human DNA, PCR Inhibitor, DNase, RNase, Pyrogen, ATP)\*.
- Sterile beta-rays SAL10-6 \*\*

\* Certificate of analysis for batch downloadable from the website

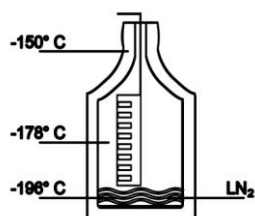
\*\* Certificate of validated Beta rays treatment downloadable from the website

**CE Marked - IN VITRO DIAGNOSTIC MEDICAL DEVICE** – for professional use only

Declaration of conformity CE-IVD on request

### CLASSIFICATION

In order to the Directive 98/79/CE and subsequent amendments and additions concerning medical-diagnostic in vitro devices, Biosigma S.r.l., defines all the above CryoGen® Tubes as medical-diagnostic in vitro devices and it classifies as “Other medical-diagnostic in vitro devices”, in order to make conformable the attachment III of the directive.



#### **ATTENTION: STORAGE OF BIOLOGICAL SAMPLES IN LIQUID NITROGEN.**

The storage of cells at temperatures below  $-130^{\circ}\text{C}$  is essential in order to preserve the material unaltered.

Many workers achieve that by the use of liquid nitrogen (at  $-196^{\circ}\text{C}$ ). The immersion of samples in the liquid phase may cause entrapment of liquefied nitrogen inside the vial and lead to pressure build-up, resulting in possible explosion or biohazard release. **We therefore recommend that samples be stored in the gas phase above the nitrogen ( $-178$  to  $-150^{\circ}\text{C}$ ) to be absolutely safe.** In this state the temperature is well below the level required to keep the material in good condition.

**Fill the tube with no more than 90% of the total nominal volume, this is to permit sample expansion.**

**For personal safety, when handling cryogenic vials frozen, always take appropriate measures wearing safety clothing, goggles and gloves, working on a appropriate work surface.**



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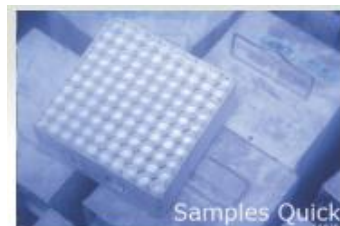
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## TECHNICAL DATA SHEET

### SAMPLES QUICK SOFTWARE

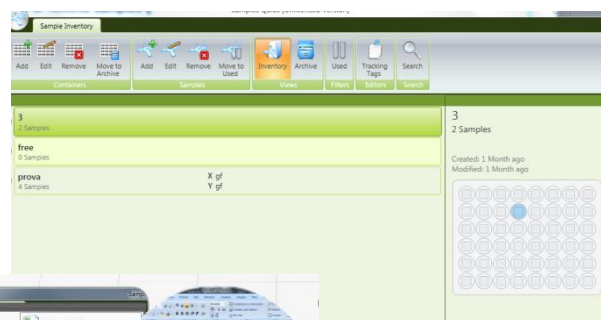
Samples Quick is a software management tool to help keep your samples organized and offers exceptional value for money. It will streamline your workflow by providing an organized storage system to track and maintain your samples.

All information that you enter into Samples Quick can be searched using the Samples Inventory search panel. Sample information can be edited, archived, removed, imported or exported.



#### Features

- Add, edit, track and maintain your samples
- Export and import sample information
- Archive or remove samples
- Move samples to “used”, which keeps sample data
- Add custom tracking tags
- View the whole sample inventory
- Search the whole sample inventory
- Backup sample inventory



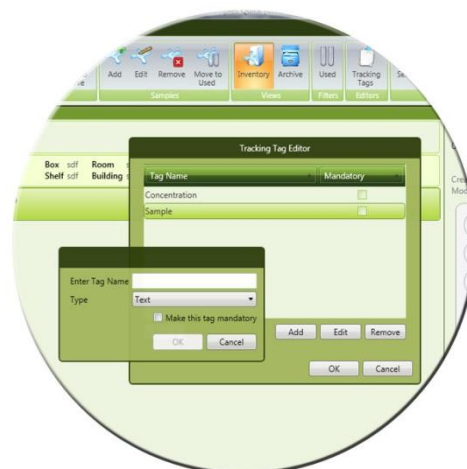
#### Tracking Tags

Samples Quick provides for standard storage information (e.g. freezer, room, building) for racks.

In addition, custom tracking tags can be added for individual samples. These are a helpful way to organize data. For instance, volume, molecular weight, freezing point or the person who stored the sample can be added.

#### Sample Inventory

Using the Sample Inventory ribbon, an individual sample or a whole rack can be added, edited, removed, or moved to “archive” or “used”. The advantage of moving to “archive” or “used” is that the sample record, its tags and notes will remain stored in the database.





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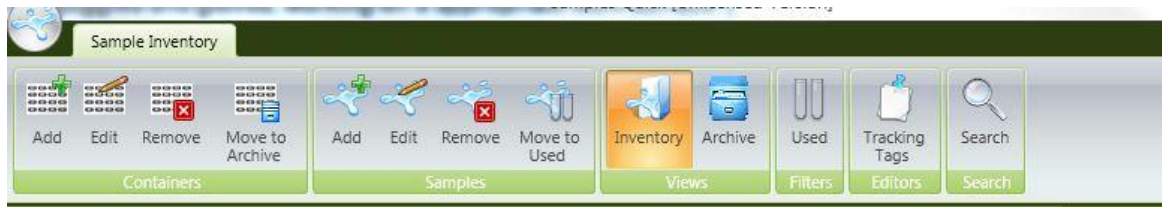
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The “Edit” function allows any of the data to be changed and the colour coding of the sample to be changed.

Additionally, “Parent” and “Child” samples can be linked.



### Rack & Samples options: Add, Edit, Remove or Move to Archive or Move to Used

#### Adding Rack or Sample

A whole rack can be added where the user is prompted to fill in various details, including the precise storage location of the rack. When adding an individual sample, a Parent Sample can be chosen and custom tracking tags can be added.

Samples Quick automatically recommends the next empty location in the rack, which can be amended by the user.

#### Samples Quick: Sample Management Simplicity

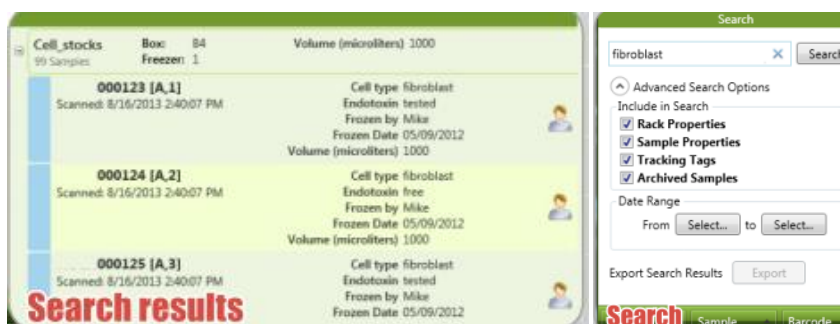
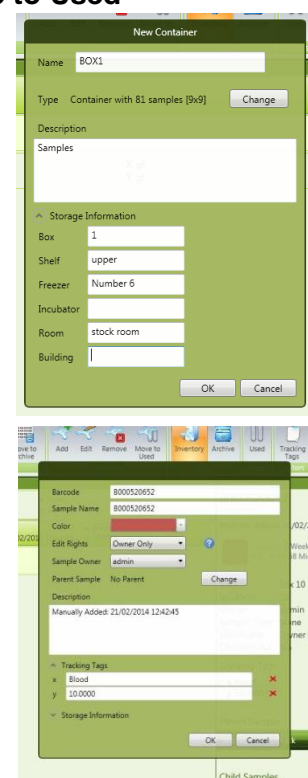
Samples Quick makes sample management simple and easy to afford. The simple navigation enables anyone to become an expert at using the software within a short space of time. User account control allows users to access their samples, without fear of another user editing the sample properties. Whilst the inventory grows, individual samples are easy to find through the “Search” function.

#### Easy and fast sample search

Search a sample by barcode or other tags

Advanced search options with different filters

Exportable and printable results





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### HIGH PERFORMANCE SCANNER

- Features the industry's fastest 2D-imaging technology for highly responsive, reliable scanning.
- Unique, ergonomic styling maximizes comfort and saves countertop space.
- Large LED indicator provides effective visual operational feedback.
- Easy plug&play installation on your PC.

You can choose your SCANNER between the two models:

- **Scanner USB  
SG20T+USB cable**



USB Scanner

- **Scanner Cordless  
SG20B+Base Station**



Cordless Scanner

OR You can choose

### PC-Tablet with USB Scanner - Ready to use

- 1 Affordable, high-performance handheld, scanner
- USB cable with Mini-USB adapter
- 1 user manual
- Monitor HD 10.1" Multi-Touch with detachable Keyboard
- Microsoft Windows and Office
- CPU Intel Atom™, 2GB RAM, Wi-fi, HDD 32 GB, Bluetooth
- Dimensions 26.3 x 17.1 x 2.36 cm, Weight : 550g
- Lithium Battery 11H Lifetime
- Tablet available with 3 different language of physical keyboard and user interface: Italian, English or French
- Microsoft Windows virtual keyboard settable in your language
- Software Samples Quick available in English or French



## Product profile

# SG20

## General Purpose Handheld Scanner



The Intermec SG20 is an affordable, high performance handheld scanner available in a range of models suited to the demands of general purpose countertop scanning.

- Features the industry's fastest 2D imaging technology for highly responsive, dependable scanning
- Unique, ergonomic styling maximizes comfort and saves countertop space
- Large LED indicator provides effective visual operational feedback
- Choice of options matched to your scanning needs: 1D or 2D scan engines, laser- or LED-based aimer, tethered or Bluetooth wireless
- Wide range of multi-purpose accessories increase scanner flexibility
- Integrates seamlessly with point of sale systems, iOS® and Android® devices, personal computers, and common software solutions

Improving customer satisfaction has long been the mission of retailers everywhere, and making the checkout process more efficient is a key area of focus. By providing highly responsive and accurate scanning at checkout, the Intermec SG20 handheld bar code scanner helps you improve the customer experience.

### Reliable, Responsive Scanning

The checkout process is all about speed and efficiency. The SG20HP features the industry's fastest bar code reading technology, with more motion tolerance than competing devices. This ensures that all common 1D and 2D bar codes are scanned easily and consistently so you can serve your customers quicker.

Unlike laser scanners, the SG20HP supports true omnidirectional scanning of both 1D and 2D bar codes. When combined with best-in-class motion tolerance, this capability means your bar codes scan fast, at any orientation. Now, you don't have to waste time awkwardly repositioning items to get a successful scan.

### Perfectly Matched to Your Needs

Intermec understands that a "one-size-fits-all" approach to scanning can limit user efficiency and accuracy, so the SG20 family includes a range of models with different communication and scanning capabilities. Select between Bluetooth wireless for up to 10 meters (32.8 feet) of range, or the simplicity of tethered (cabled) connectivity.

Choose the scan engine matched to your needs: either 1D (linear), 2D with laser aimer, or 2D with LED aimer ideal for customer-facing applications. Now, you can standardize on a single scanner family across your operation while providing the right solution for your varied applications.

A variety of matching accessories, such as scan stands and holders, enable hands-free scanning and free up counter or desktop space. Regardless of the configuration, the entire SG20 line is priced for affordability and value.

### Setting a New Design Standard

The stylish design of the SG20 sets it apart from traditional gun-shaped handheld scanners. Careful attention to detail and extensive usability testing have resulted in a scanner that is not only aesthetically pleasing on any countertop, but also optimized for user comfort with a natural smooth grip and trigger location.

The arching profile of the SG20 is perfect for tight spaces and the over-sized multi-color LED provides a bright visual cue to confirm a successful scan, which can be helpful in noisy environments. In fact, the LED can be programmed to match the decor of your storefront.

### Part of a Complete Intermec Solution

The SG20 can be quickly and easily configured with Intermec's exclusive EasySet™ PC programming tool. In



just a few clicks, this Windows-based utility can print programming barcodes for custom configurations. Adjust security settings, symbologies, beeper tone and volume, LED color—even set advanced data editing routines.

## Comprehensive Support Services Available

Intermec bar code scanners operate in dynamic business environments, and a support plan can protect you from unforeseen contingencies. Intermec Medallion® Service programs deliver the highest levels of productivity, device reliability, and uptime. Choose the right amount of coverage appropriate for your operations. For more, visit [www.intermec.com/services](http://www.intermec.com/services).

## Physical Characteristics

### Dimension (L x W x H):

20 cm (7.9 in) x 6.1 cm (2.4 in) x 6.5 cm (2.6 in)

**Weight (SG20T):** 125 g (4.41 oz)

**Weight (SG20B):** 175 g (6.17 oz)

## Electrical Specifications

**Battery:** Lithium-ion rechargeable (1567 mAh)

**Battery Life:** Minimum 8K scans from 70% capacity

**Battery Recharge Cycle:** 3 hrs when connected to external power supply; 6 hrs when slow charged from typical USB port

## Typical Power Consumption

**Tethered Versions @5V DC:**

120mA (SG20T1D); 330mA (SG20THP)

**Wireless Versions (Base Station):** 0.5A maximum

## Bluetooth Radio

**Type:** Bluetooth Class 2 v2.1+EDR

**Range:** 10 m (32.8 ft)

**Features:** Adaptive Frequency Hopping (AFH)

## Connectivity

- **USB:** HID Keyboard (with Apple iOS Support), HID POS\*, IBM SurePOS\*, virtual comm port
- **PC keyboard wedge**
- **RS232**

\* Tethered versions

## Scan Technology

**SG20xHP:** Intermec Area Imager, Laser Aimer (EA30)

**SG20x2D:** Intermec Area Imager, LED Aimer (EA31)

**SG20x1D:** Intermec Linear Imager (EV Series)

## Scan Performance

**Min. Code Resolution:**

**1D Codes:** 4 mils

**2D Codes:** 6.6 mils

**Min. Print Contrast:** 20%

**Motion Tolerance:**

**SG20xHP:** 500 in/s

**SG20x2D:** 400 in/s

## Bar Code Symbologies Supported (1D)

Codabar, Code 11, Code 39, Code 93/93i, Code 128 / GS1-128, EAN/UPC, GS1 DataBar Limited, GS1 Composite (linear only), GS1 DataBar Expanded, GS1 DataBar Omnidirectional, Interleaved 2 of 5, Matrix 2 of 5, MSI, Plessey, Standard 2 of 5, Telepen

## Bar Code Symbologies Supported (2D)

All above symbologies supported by 1D model plus the following: Australian Post, Aztec, BPO, Canada Post, Codablock A, Codablock F, DataMatrix, Dutch Post, EAN/UPC, GS1 Composite, GS1 DataBar Stacked, Infomail, Intelligent Mail, Japan Post, Maxicode, Micro PDF417, Multicode, PDF417, Planet, Postnet, QR Code, Sweden Post, TLC 39

## Temperature and Environmental Specifications

**Operating temperature:** 0°C to 50°C (32°F to 122°F)

**Storage temperature:** -20°C to 60°C (-4°F to 140°F)

**Relative humidity:** 5 to 95% non-condensing

**Drop:** 1.2 m (4 ft.) to concrete

**Environmental rating:** IP30

**Ambient light:** 0 to 100,000 lux

## Electromagnetic Emissions Standards

Meets the requirements of the following product emission standards:

- FCC Part 15 Class B (United States)
- Industry Canada ICES-003 Class B (Canada)
- EN 55022: CISPR 22 Class B (European Union)

## Environmental Compliance Requirements

Conforms to environmental compliance requirements for RoHS, China RoHS, WEEE, and REACH.

## Regulatory Approvals

UL; CE Mark (EU); NOM (Mexico); C-TICK (Australia and New Zealand); SRRS (China); IDA (Singapore); ANATEL (Brazil); Industry Canada ICES-003 Class B (Canada)

## Standard Warranty

- **Tethered Models (SG20T):** 5 years
- **Wireless Models (SG20B):** 3 years
- Extended protection available with Intermec Medallion Support

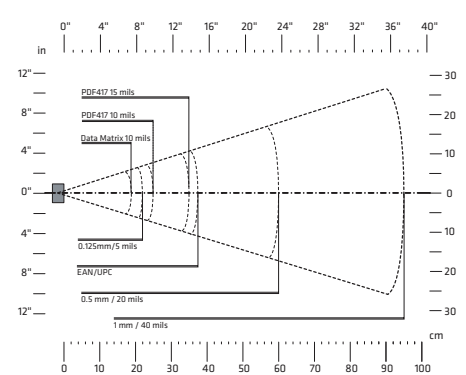
## Accessories

Consult the [SG20 Accessory Guide](#) for details.

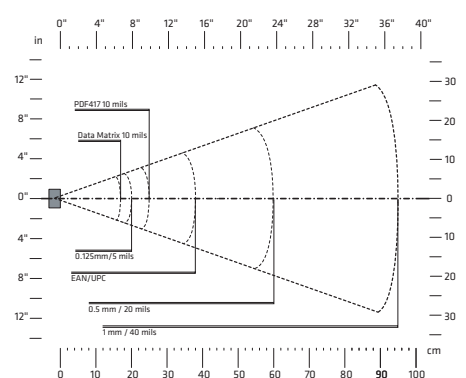
- Adjustable hands free desktop scan stand
- Desktop/wall mount holder
- Charge base (for wireless versions)
- Bluetooth charge base (for wireless versions)
- USB, RS232, keyboard wedge interface cables
- EasySet™ configuration software

## Typical Reading Distances\*

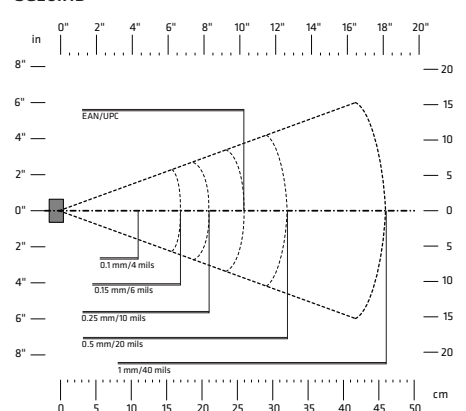
### SG20xHP



### SG20x2D



### SG20x1D



\* The reading distances for each scanner are typical distances measured from the front end of the scanner bezel in an office environment (200 lux) with extended reading range activated.



**North America**  
**Corporate Headquarters**  
6001 36th Avenue West  
Everett, Washington 98203  
Phone: (425) 348 2600  
Fax: (425) 355 9551

**North Latin America**  
**Headquarters Office**  
Mexico  
Phone: (+52) 55 52 41 48 00  
Fax: (+52) 55 52 11 81 21

**South Latin America**  
**Headquarters Office**  
Brazil  
Phone: (+55) 11 3711 6776  
Fax: (+55) 11 5502 6780

**Europe, Middle East & Africa**  
**Headquarters Office**  
Reading, United Kingdom  
Phone: (+44) 118 923 0800  
Fax: (+44) 118 923 0801

**Asia Pacific**  
**Headquarters Office**  
Singapore  
Phone: (+65) 6303 2100  
Fax: (+65) 6303 2199

**Media Sales**  
EMEA: (+31) 24 372 3167  
USA: (513) 874 5882  
<http://intermec.custhelp.com>

**Sales**  
Toll Free NA: (800) 934 3163  
Toll in NA: (425) 348 2762  
FreePhone ROW:  
00800 4488 8844

**OEM Sales**  
Phone: (425) 348 2762

**Customer Service and Support**  
Toll Free NA: (800) 755 5505  
Toll in NA: (425) 356 1799  
EMEA: [intermec.custhelp.com](mailto:intermec.custhelp.com)

**Internet**  
[www.intermec.com](http://www.intermec.com)  
**Worldwide Locations**  
[www.intermec.com/locations](http://www.intermec.com/locations)



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